

REMARKS

Claims 1-8, 12, 14-16, 18-20, 22 and 23 are pending in the application. Claims 1-5, 7-8, 12, 14-16, 18-20 and 22-23 have been amended. Claims 9-11, 13, 17 and 21 have been cancelled.

Claim Rejections – 35 U.S.C §112

The Examiner has rejected claims 1-23 under 35 U.S.C 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Independent Claims 1, 12, 16 and 20

The Examiner noted that in claim 1, the recited two-dimensional pyramid filter architecture “fails to define a structure,” that “(a)rchitecture does not output signals’,” that “the architecture fails to be defined,” that “lines 7-12 call for producing ‘pyramid filtered output signals’ but the structure that is necessary to produce these signals fails to be recited,” that the “one and two dimensional filters of line 8 and 10 fail to be related to the architecture” and that the “last three lines of claim 1 are the recitation of function without adequate structural basis.”

Claim 1 has been amended to recite a first, second and third summer circuits, to recite that the two-dimensional filter architecture includes one-dimensional pyramid filters of order $2N-1$ and the first and second summer circuits in view of the Examiner’s rejection. Claim 1 has been further amended to recite that the two-dimensional pyramid filter architecture output signals corresponds to a signal produced by the first summer circuit summing output signals produced by four one-dimensional pyramid filters of order $2N-1$, and to a signal produced by the second summer circuit summing signal sample matrices of order $[2(N-1)-1]$ in view of the Examiner’s rejection. Claim 1 has further been amended to recite that the respective output signals of the two-dimensional pyramid filter architecture are summed by the third summer circuit in view of the Examiner’s rejection. Claim 1 has also been amended to delete “two-

dimensional pyramid filters" and "two-dimensional pyramid filter of order $[2(N-1)-1]$ " in view of the Examiner's rejection.

Independent claims 12, 16 and 20 have been amended in a similar manner.

In support of the amended claims, applicant respectfully directs the Examiner's attention to Fig. 3 and the supporting text found in the paragraph beginning on page 14 and ending on page 15 of the specification.

Dependent claims 9-11, 13, 17 and 21 have been cancelled in view of the Examiner's rejection.

Claims 2-5, 7-8, 14-15, 18-19 and 22-23

Claims 2-5 and 7-8 have been amended to be consistent with claim 1 as amended.

Claims 14 and 15 have been amended to be consistent with claim 12 as amended.

Claims 18 and 19 have been amended to be consistent with claim 16 as amended.

Claims 22 and 23 have been amended to be consistent with claim 20 as amended.

ALLOWABLE SUBJECT MATTER

The Examiner noted that claims 1-23 would be allowable if rewritten to overcome the rejections under 35 U.S.C. 112, second paragraph, set forth in the Office Action of February 5, 2004. Applicant respectfully notes that the claims have been amended to overcome the Examiner's rejection and are in condition for allowance.

CONCLUSION

In view of the foregoing, it is respectfully asserted that all of the claims pending in this patent application other than cancelled claims are in condition for allowance.

Application No. 09/823,390
Reply to Office Action of February 5, 2004
Attorney Docket: 42380.P11277

Should it be determined that an additional fee is due under 37 CFR §§1.16 or 1.17, or any excess fee has been received, please charge that fee or credit the amount of overcharge to deposit account #02-2666.

If the Examiner has any questions, he is invited to contact the undersigned at (503) 264-6473. Reconsideration of this patent application and early allowance of all the claims is respectfully requested.

Respectfully submitted,



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Dated: June 22, 2004

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